

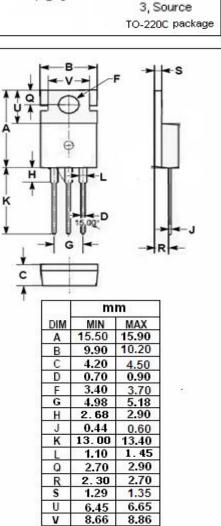
INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IXTP220N04T2

RDS(4 • Fully ch • 100% a • Minimu perform	drain-source on-resistance: on) ≤ 3.5mΩ@V _{GS} =10V haracterized avalanche voltage and avalanche tested im Lot-to-Lot variations for robust de nance and reliable operation CATION			pin 1, Gate 1 2 3 1 2 20 parts
• DC/DC	Converters			
• ABSOI	LUTE MAXIMUM RATINGS(Ta=25 PARAMETER	°C) VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	40	V	
V _{GS}	Gate-Source Voltage	±20	V	K
ID	Drain Current-Continuous	220	А	
I _{DM}	Drain Current-Single Pulsed	660	А	↑ mm
P _D	Total Dissipation @T _c =25°C	360	W	DIM MIN MAX A 15.50 15.90 B 9.90 10.20
Tj	Operating Junction Temperature	-55~175	°C	C 4.20 4.50 D 0.70 0.90
T _{stg}	Storage Temperature	-55~175	°C	F 3.40 3.70 G 4.98 5.18 H 2.68 2.90
• THERM	MAL CHARACTERISTICS			J 0.44 0.60 K 13.00 13.40 L 1.10 1.45 0 2.70 2.00

SYMBOL	PARAMETER	MAX	UNIT			
R _{th(j-c)}	R _{th(j-c)} Junction-to-case thermal resistance		°C/W			



6.65

8.86

U

V



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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; ID = 250 μ A	40		V
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID = 250 μ A	2.0	4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D = 50A		5	mΩ
I _{GSS}	Gate-Source Leakage Current	V_{GS} = ±20V; V_{DS} =0V		±200	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = V _{DSS} ; V _{GS} = 0V	5		A
		V _{DS} = V _{DSS} ; V _{GS} = 0V;T _J = 150°C		50	μA
V _{SD}	Diode forward voltage	I _F = 50A; V _{GS} = 0V		1.1	V

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